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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,930	12/15/2005	Yasushi Amamiya	040373-0367 4350	
******	7590 08/23/200 LARDNER LLP	7	EXAMINER	
SUITE 500			LUU,	AN T
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
			2816	
			MAIL DATE	DELIVERY MODE
			08/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/560,930	AMAMIYA, YASUSHI		
Office Action Summary	Examiner	Art Unit	· · · · · · · · · · · · · · · · · · ·	
	An T. Luu	2816		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence addr	ess	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timusely unit apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. lely filed the mailing date of this common (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 15 Dec. 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E.	action is non-final. nce except for formal matters, pro		nerits is	
Disposition of Claims				
4) ⊠ Claim(s) <u>1-25</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,2,7,9,11,12,14,15,17,20 and 21</u> is/a 7) ⊠ Claim(s) <u>3-6,8,10,13,16,18,19 and 22-25</u> is/are 8) □ Claim(s) are subject to restriction and/or	vn from consideration. re rejected. e objected to.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR		
Priority under 35 U.S.C. § 119	•			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12-15-05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	· .	

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DETAILED ACTION

Drawings

1. Figure 1-5 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 7, 11, 14, 15, 17, 20 and 21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claim 11, "said differential circuit" on line 4 lacks clear antecedent basis because more than one differential circuit has been recited previously. Further, all the limitations of claim 11 (i.e., bypass path, switching means and control means) appear to be referring to the same components as already set forth in base claim 9. Note also the same problems in claim 14.

As to claim 15, it is not clear if "a clock signal" on lines 9 and 20 is the same as "a clock signal" already set forth on line 5.

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As to claim 17, note that it is identical to claim 7 (and that both claims 7 and 17 directly depend from claim 3).

As to claim 20, note that it is identical to claim 18 (and that both claims 18 and 20 directly depend from claim 4).

As to claim 21, note that it is identical to claim 19 (and that both claims 19 and 21 directly depend from claim 5).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 9, 11, 12 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Widener (US Patent 4,777,388).

As to claim 1, Widener discloses in figure 2 a current supply control circuit for controlling an amount of current supplied to a differential circuit (16), comprising a bypass path (i.e., conducting path of 28) for bypassing current around said differential circuit; switching means 28, interposed in said bypath pass, for opening/closing said bypass path in accordance with a signal level of a clock signal C applied from the outside; and control means (the transistor in block 24 directly connected to transistor 42, hereinafter T1) for controlling the amount of current supplied to said differential circuit in accordance with the signal level of the clock signal.

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As to claim 2, figure 2 of Widener shows the control means T1 for adjusting the amount of current in synchronization with opening/closing of the bypass path (i.e., T1 is ON/OFF when 28 is ON/OFF, respectively).

As to claims 9 and 11, Widener discloses in figure 2 a latch circuit comprising a first differential circuit 16 for reading a data signal D from the outside, a second differential circuit 18 for holding the data signal (i.e., the logic states of the outputs of latch 16 will be held until latch 18 is activated in response to amplifier 20), a first current supply control circuit (see explanation below) for controlling an amount of current supplied to said first differential circuit, and a second current supply control circuit (see explanation below) for controlling the amount of current supplied to said second differential circuit, wherein said first current supply control circuit comprises a first bypass path (i.e., conducting path of 28) for bypassing current around said first differential circuit; first switching means 28, interposed in said first bypass path, for opening/closing said first bypass path in accordance with a signal level of a clock signal /C applied from the outside; and first control means (transistor in block 24 directly connected to transistor 42, hereinafter T1) for controlling the amount of current supplied to said first differential circuit, and said second current supply control circuit comprises a second bypass path (i.e., conducting path of 26) for bypassing current around said second differential circuit; second switching means 26, interposed in said second bypass path, for opening/closing said second bypass path in accordance with a signal level of a clock complementary signal C applied from the outside, said clock complementary signal having a signal level that is the inverse of that of the clock signal; and second control means (the transistor in block 24 directly connected to node B, hereinafter T2) for controlling the amount of current supplied to said second differential

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circuit, wherein said first control means adjusts the amount of current in accordance with the signal level of the clock signal, and said second control means adjusts the amount of current in accordance with the signal level of the clock complementary signal.

As to claim 12 and 14, these claims are rejected using the same analysis as applied against claims 9 and 11 above. Note that D and /D are interpreted as a first data signal from the outside, and that the outputs of amplifier 20 are interpreted as a second data signal from the outside.

Allowable Subject Matter

Claims 3-6, 8, 10, 13, 16,18, 19 and 22-25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 15 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Claims 7, 20 and 21 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fails to disclose an apparatus comprising elements being configured as recited in claims. Specifically, none of the prior art teaches or fairly suggests the limitations "said switching means has a current switching transistor, said transistor having an emitter connected to a common emitter of said differential circuit, and said control means is connected to a connection

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point between the emitter of said current switching transistor and the common emitter of said differential circuit" as recited in claims 3 and 16; "said control means adjusts the current so that the amount of current supplied to said differential circuit when the signal level of the clock signal is at a low level is larger than the amount of current supplied to said differential circuit when the signal level is at a high level" as recited in claim 6; "said control means adjusts the current so that the amount of current supplied to said differential circuit when the signal level of the clock signal is at a low level is larger than the amount of current supplied to said differential circuit when the signal level is at a high level" as recited in claim 10 and 13; and "said switching means has a current switching transistor, said transistor having an emitter connected to a common emitter of said differential circuit, and said control means is connected to a connection point between the emitter of said current switching transistor and the common emitter of said differential circuit" as recited in claim 15. The remaining claims are allowable due to their dependency upon the claims noted above.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to An T. Luu whose telephone number is 571-272-1746. The examiner can normally be reached on Monday to Friday from 7:30-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Richards can be reached at 571-272-1736. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A tolum 8/14/07